



ADAM ELSHIMI

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SUMMARY

AI & Machine Learning Engineer with experience in developing scalable AI solutions, multi-agent systems, and enterprise AI architectures. Expertise in end-to-end AI development, from data engineering and model deployment to MLOps and cloud integration. Proven ability to transform AI research into market-ready products, leveraging LLMs, NLP, and predictive analytics. Strong leadership in AI strategy, digital transformation, and high-performance computing.

WORK EXPERIENCE

Agentic AI Solution Architect, SensAI Consulting (Agentic AI) **July 2024 - Present**

- **AI Strategy & Leadership** – Defined and executed the company’s AI and data science vision, embedding machine learning into core business strategies and operations while fostering a data-driven culture.
- **End-to-End AI Development** – Led the full AI project lifecycle, from data collection to model deployment, ensuring scalable infrastructure, robust data governance, and integration of predictive models into products and services.
- **Innovation & Team Building** – Researched and implemented cutting-edge AI methodologies, developed a technology roadmap, established strategic partnerships, and mentored a high-performing team of data scientists and engineers.

Senior AI Specialist, VIAVI Solution (Telecommunication) **Apr 2021 - July 2024**

- **AI Product Development & Deployment** – Translated AI research into market-ready products using NLP and predictive analytics, leveraging AWS for scalable solutions.
- **ML Infrastructure & Engineering** – Designed and deployed ML models on Kubernetes and Docker, ensuring scalability, security, and operational efficiency.
- **Technical Leadership & Optimization** – Led Agile teams to integrate ML-driven innovations, enhancing network operations and reducing predictive maintenance costs.
- **Filed Patent:** AI-Driven Energy Saving Prediction - Using GNN Models Trained with Radio Access Network Intelligent Controller Simulation Data, optimizing telecom network efficiency using Graph Neural Networks.

AI Cybersecurity Engineer, Birkbeck Institute of Data Analytics **Sep 2019 - Nov 2020**

- **AI-Powered Cybersecurity** – Developed an intrusion detection system using Generative Adversarial Networks (GANs) to enhance threat detection and mitigation.
- **Machine Learning & Data Analysis** – Applied advanced ML techniques to analyse security data, identify vulnerabilities, and improve system resilience.
- **Research & Implementation** – Conducted AI/ML research for cybersecurity applications, translating findings into real-world defensive strategies.

AI & ML CONTRAC WORK

AI Consultant, Bishops I.T. Solutions (multiple contracting jobs) **Sep 2014 - Nov 2021**

- **Predictive Analytics & Optimization** – Enhanced network predictive maintenance capabilities, improving operational efficiency and reducing downtime.
- **Machine Learning & Big Data** – Increased predictive model accuracy by 30% using advanced feature engineering with Apache Hadoop.
- **Data Visualization & Customer Insights** – Developed Tableau dashboards and user behavior prediction models, boosting customer retention by 25%.
- **Technical Training & Workshops** – Conducted digital training sessions and computer assembly workshops, upskilling teams in IT infrastructure and data-driven decision-making.

AI Consultant, Lancaster Youth Centre (UK) **Sep 2020- Aug 2022**

- **AI-Driven Registration System** – Developed a desktop application for youth center registration, integrating historical and new data for streamlined management.
- **Data Analytics & Insights** – Designed analytical models to extract insights on gender distribution, attendance, and demographics to support data-driven decision-making.
- **Funding & Stakeholder Reporting** – Provided actionable metrics to help the youth center secure funding from the local government through data-backed proposals.

EDUCATION

Master Degree in Data Science **Aug 2016 - Oct 2019**

University of London, Birkbeck

Machine Learning, Deep Learning, Neural Networks, and GANs, Cloud computing, Big data, machine vision, and NLP

Bachelor of Science, Mathematics **May 2014 - May 2016**

King's College London (KCL), University of London

Pure Mathematics (Linear Algebra, Real & Complex Analysis, Abstract Algebra, Topology), Applied Mathematics (Differential Equations, Mathematical Modelling, Numerical Methods), Probability & Statistics (Stochastic Processes, Bayesian Inference, Statistical Mechanics), and Theoretical Physics at an advanced level, including Classical Mechanics, Electromagnetism, Quantum Mechanics, Quantum Field Theory, and General Relativity.

ADDITIONAL INFORMATION

Technical Skills:

AI & Machine Learning – Artificial Intelligence, Deep Learning, Computer Vision
Data Science & Analytics – Data Science, Data Visualization, Feature Engineering
Big Data & Distributed Systems – Apache Hadoop, Apache Spark, Apache Kafka, BigQuery
Cloud & DevOps – AWS, Azure, Docker, Kubernetes, CI/CD, Ansible, Cloud Security
High-Performance & GPU Computing – CUDA, GPU Acceleration, NCCL, Distributed Systems
Software Engineering & Automation – Algorithms, APIs, Bash, Flask, Git
Cybersecurity & Data Management – Encryption, Firewalls, Data Quality, Data Warehousing
Project Management & Collaboration – Agile, DevOps, Asana, Confluence

Languages: English, Arabic

Certifications: Deep Reinforcement Learning, intro to Self-Driving Cars, Machine Learning DevOps Engineer, Reinforcement Learning Foundations, Machine Learning (Stanford University, Coursera)

Awards/Activities:

Filed Patent - AI-Driven Energy Saving Prediction - Using GNN Models Trained with Radio Access Network Intelligent Controller Simulation Data, optimizing telecom network efficiency using Graph Neural Networks.